



Reply under 37 CFR 1.116—Expedited
Procedure -Technology Center 1762

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IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Patent Application

Inventors: Sang-Wook Cheong Case No.: 5-1
Namjung Hur

Serial No.: 09/885,471 Group Art Unit: 1762

Filing Date: June 20, 2001 Examiner: Eric B. Fuller

Title: MgB₂ SUPERCONDUCTORS

ASSISTANT COMMISSIONER OF PATENTS
WASHINGTON, D.C. 20231

Sir:

**REPLY AND REQUEST FOR RECONSIDERATION
UNDER 37 C.F.R. §§ 1.113, 1.116, 1.121**

This is a reply to the final Office Action mailed January 29, 2003.

AMENDMENT

IN THE CLAIMS

Rewrite Claim 8 as:

8. (first amended) A process for making a structure, comprising:
providing a solid body of MgB₂;
ejecting MgB₂ from the body by directing laser light onto the body; and
growing an MgB₂ layer on a surface of a substrate from a portion of the ejected
MgB₂.

Unchanged Claim 9:

9. The process of claim 8, wherein the substrate and MgB₂
have lattice constants along the surface that match to at least 10 percent.

Unchanged Claim 10:

10. The process of claim 8, further comprising forming the solid body by
sintering MgB₂.